BRUHAT BANGALORE MAHANAGARA PALIKE
Yelahanka Division

COMPARATIVE STATEMENT

Name of work : Restoration and Improvements of roads at MS Palya, Aishwarya Bakery road, Giridhamanagara and surrounding areas in Ward No-03 of Yelahanka New town Sub division. (PACKAGE NO-08)

Estimate Amount : 100,000,000.00

Name of Contractor : SRI SAI CONSTRUCTION

Approved Amount : 99,209,570.00

Job Code : 003-22-000009

Sl No	Description of Work	Unit	Qty as per Schedule- B			Total Qty Executed	Qty as per Actuals upto 125%			Qty as per Actuals above 125%			Total		Difference	
			Qty.	Rate	Amt.		Quantity	Rate	Amount (Rs.)	Quantity	Rate	Amount (Rs.)	Quantity	Amount (Rs.)	Excess	Savings
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Removing B.S. slab of Drain and stacking.	Sqm	5248.80	105.99	556320	5248.80	5248.80	105.99	556320.31		105.99		5248.80	556320		
2	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.	Cum	6542.10	217.43	1422449	5841.11	5841.11	217.43	1270033.09		217.43		5841.11	1270033	-	152416
3	Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs. with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications	Cum	916.52	5675.99	5202158	859.23	859.23	5675.99	4876986.56		5675.99		859.23	4876987		325172
4	Providing TMT Bars Fe 500 steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification, MORTH Specification No.1600 & 2200	Tonne	110.87	80948.07	8974713	114.97	114.97	80948.07	9306599.61		80948.07		114.97	9306600	331887	
5	Providing and laying plain/reinforced cement concrete for side drains Wall & bottom thickness 15cm using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500,1700, 2200 including cost of materials, labour, HOM complete as per specifications.	Cum	1825.45	7497.22	13685800	1742.17	1742.17	7497.22	13061423.90		7497.22		1742.17	13061424		624376
6	Supplying and fixing precast reinforced concrete slab 10 cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steell at 150mm C/c both ways cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of cost of all materials(data Rate enclosed)	Sqm	5216.40	1941.22	10126189	4534.23	4534.23	1941.22	8801937.96		1941.22		4534.23	8801938		1324242

Total Qty 5248.80

Sl No	Description of Work	Unit	Qty as per Schedule- B			Total Qty Executed	Qty as per Actuals upto 125%			Qty as per Actuals above 125%			Total		Difference	
			Qty.	Rate	Amt.		Quantity	Rate	Amount (Rs.)	Quantity	Rate	Amount (Rs.)	Quantity	Amount (Rs.)	Excess	Savings
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
7	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)	Sqm	171.60	4530.86	777496	214.50	214.50	4530.86	971869.47	-	4530.86	-	214.50	971869	194374	
8	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal Coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost ofall materials, labour, HOM curing complete as per specifications.	Cum	70.08	6089.86	426777	87.60	87.60	6089.86	533471.74	-	6089.86	-	87.60	533472	106694	-
9	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	nos	7786.67	436.80	3401217	9733.34	9733.34	436.80	4251521.82	-	436.80	-	9733.34	4251522	850304	-
10	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.	Sqm	1226.40	85.65	105041	1170.00	1170.00	85.65	100210.50	-	85.65	-	1170.00	100211	-	-
11	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by mechanical means attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM complete as per specifications. MORTH I Chapter 3	Sqm	2602.00	41.75	108634	2602.00	2602.00	41.75	108633.50	-	41.75	-	2602.00	108634	0	-

2	80.00	1.35	216.00
		Total Qty	5248.80
		Qty as per Schedule-B	5248.80

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
12	Leading charges for Scarified quantity	cum	208.16	21.93	4565	260.20	260.20	21.93	5706.19		21.93	-	260.20	5706	1141	
13	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete,-wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications.i) Lime /Cement Concrete. I. By Manual Means: A. Lime Concrete, cement concrete grade M-10 and below MORTH Specification No. 202	Cum	203.10	486.05	98717	203.10	203.10	486.05	98716.76	-	486.05	-	203.10	98717	-	-
14	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.	Cum	8651.52	64.58	558715	9172.00	9172.00	64.58	592327.76	-	64.58	-	9172.00	592328	33613	-
15	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (I No-19.64,P No-147)	Sqm	28838.40	6.42	185143	30105.00	30105.00	6.42	193274.10	-	6.42	-	30105.00	193274	8132	-
16	Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1 ,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601 of MORTH V Revision and IS 456 Table-5 do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver.	Cum	671.55	4101.90	2754631	742.00	742.00	4101.90	3043609.80	-	4101.90	-	742.00	3043610	288979	-
17	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum, OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction expansion, construction and longitudinal joints,including groove cuting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all load & lift charges etc., complete as per specifications.	Cum	671.55	5690.64	3821549	742.00	742.00	5690.64	4222454.88	-	5690.64	-	742.00	4222455	400906	-

2	80.00	1.35	216.00	
		Total Qty	5248.80	
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
18	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications	Cum	3654.21	2014.87	7362758	3831.00	3831.00	2014.87	7718966.97	-	2014.87	-	3831.00	7718967	356209	-
19	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406	Cum	4872.28	2021.29	9848291	5107.00	5107.00	2021.29	10322728.03	-	2021.29	-	5107.00	10322728	474437	-
20	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.Clause 502 of MORTH V revision	Sqm	24361.40	34.26	834622	24050.00	24050.00	34.26	823953.00	-	34.26	-	24050.00	823953	-	10669
21	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading; premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and ialignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision do - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30	Cum	1218.07	7365.73	8971975	1202.50	1202.50	7365.73	8857290.33	-	7365.73	-	1202.50	8857290	-	114684
22	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.	Sqm	24361.40	12.85	313044	24050.00	24050.00	12.85	309042.50	-	12.85	-	24050.00	309043	-	4001
23	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen	Cum	974.46	8534.82	8316841	962.00	962.00	8534.82	8210496.84	-	8534.82	-	962.00	8210497	-	106344
24	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803	Sqm	1103.40	459.29	506781	735.00	735.00	459.29	337578.15	-	459.29	-	735.00	337578	-	169202

2	80.00	1.35	151.20	
		1.35	216.00	
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
25	Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.	nos	151.67	360.79	54721	0.00	0.00	360.79	0.00	-	360.79	-	0.00	0	-	54721
26	Direction and Place Identification Signs with size morethan 0.9 Size Board: Providing and erecting direction and place identification retro -reflectorised sign as per IRC:67 made of high i ntensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm , 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing.	Sqm	21.06	7633.38	160759	0.00	0.00	7633.38	0.00	-	7633.38	-	0.00	0	-	160759
	SUB TOTAL				88579374				88575154			0		88575154	3046676	3046587
	GST @ 12%			12%	10629596		12%		10629018		12%	0	12%	10629018	295850	295842
	TOTAL				99209570				99204172			0		99204172	3342526	3342428

CERTIFICATE

Certified that the work is done satisfactorily

Contractor

M/s. NANDI CONSULTANTS SHIMOGA

Rajashekhar Saidapur. K.M.

Assistant Engineer

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೫೬

Executive Engineer,
Yelahanka Division,
B.B.M.P, Bangalore-64

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Toll Cross	2	56.00	1.35	67.50	
	2		1.35	151.20	